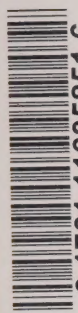


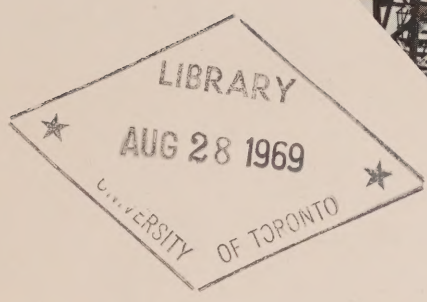
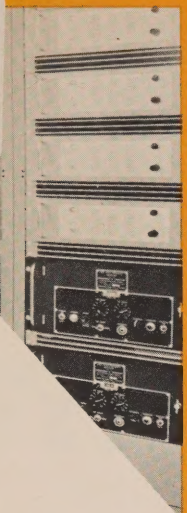
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THE DEPARTMENT OF TRANSPORT

The Federal Department of Transport is concerned with marine and air transportation in Canada, and with the many safety facilities in these transportation fields. In addition to various regulatory functions, the Department of Transport directly operates and maintains the electronic aids to air and marine navigation, and facilities for the monitoring and control of air traffic on airways and at civil airports across Canada.

Because of the size and scope of these Department of Transport operations, many excellent career opportunities for electronics technicians and technologists exist within its organization.

The Telecommunications and Electronics Branch

This Branch of the Department of Transport employs more than 1000 electronics specialists as technicians, technologists and inspectors at its many establishments across Canada. These technical personnel are concerned with the design, installation and maintenance of departmentally operated electronic aids to air and marine navigation, ensuring that highest possible technical standards are maintained in all these fields.

Salary Ranges in the Department of Transport

Salaries and other benefits in the Department of Transport compare favourably with those offered by other organizations, including private industry, and range up to \$11,166 per year for the electronic technicians. Salaries and technical responsibilities among senior electronic technicians correspond to the senior technologist classification used by other organizations. The table, "Electronic Technicians' Salary and Responsibility Progress Chart", which you will find inserted in the back of this booklet, illustrates typical salaries and responsibilities within the Electronics class. The salary ranges, indicated on this chart, are subject to periodic adjustments.

Non-salary Benefits in the Department of Transport

Promotions — Excellent promotional opportunities exist in the Department of Transport. All promotions are based on consideration of the employee's capabilities and qualifications, rather than on length of service. Promotions are decided by competitions, to which all interested employees are invited to submit their applications.

Annual Leave — Three weeks per year; four weeks per year after 20 years service.

Sick Leave — A generous system provides sick leave of 15 days per year with pay for all employees. Unused benefits are cumulative from year to year.

Retirement — Retirement at employee's option at age 60; normally compulsory at 65.

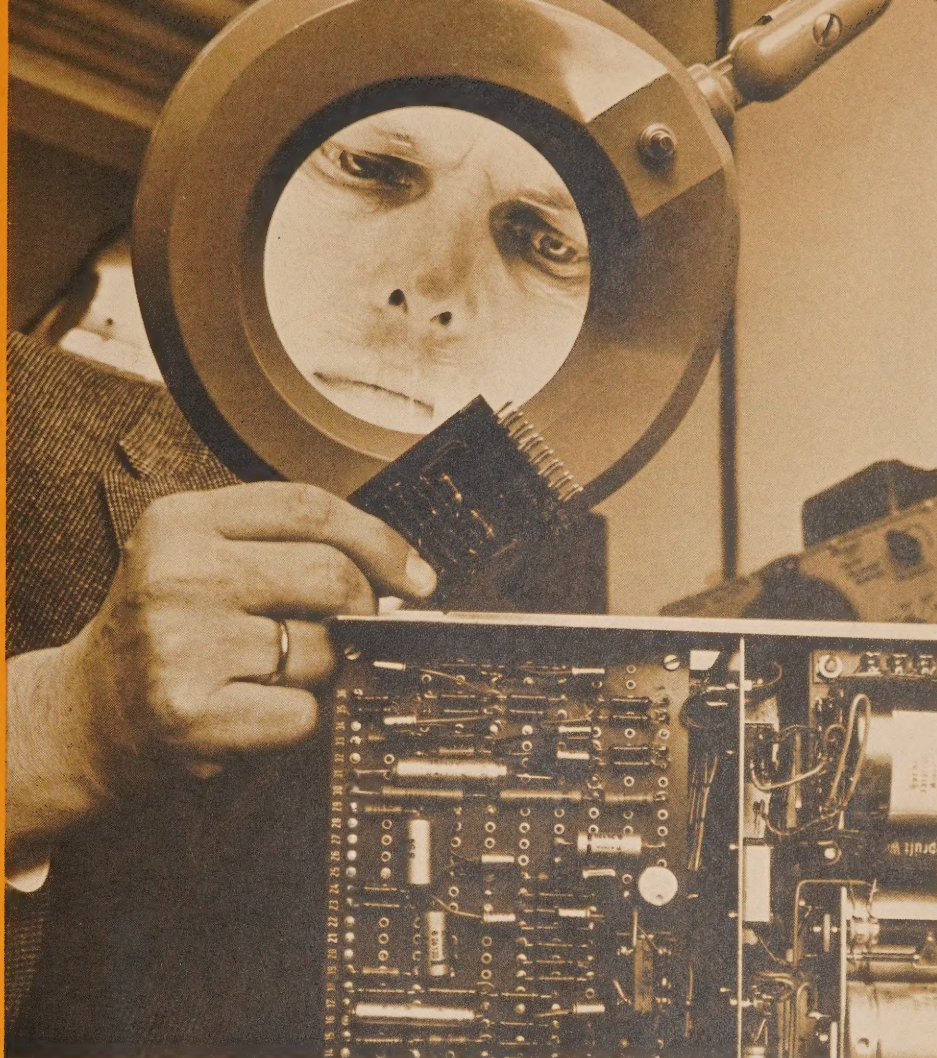
Pension — A generous contributory plan will combine with the Canada Pension Plan to provide approximately 70% pension after 35 years service. Proportional benefits are in effect for shorter service. The employee's wife and dependent children also are provided for under this plan.

Medical and Hospitalization Plans — An economical plan is available with cost shared by both employee and Department.

Insurance — Available at a very economical rate.

Educational Leave — Available on Department's option for education related to employee's duties.

Engineering Supervision — Engineers are employed by the Department of Transport who are professionally qualified to certify experience qualifications of technicians seeking certification by provincial technician-technologist associations.

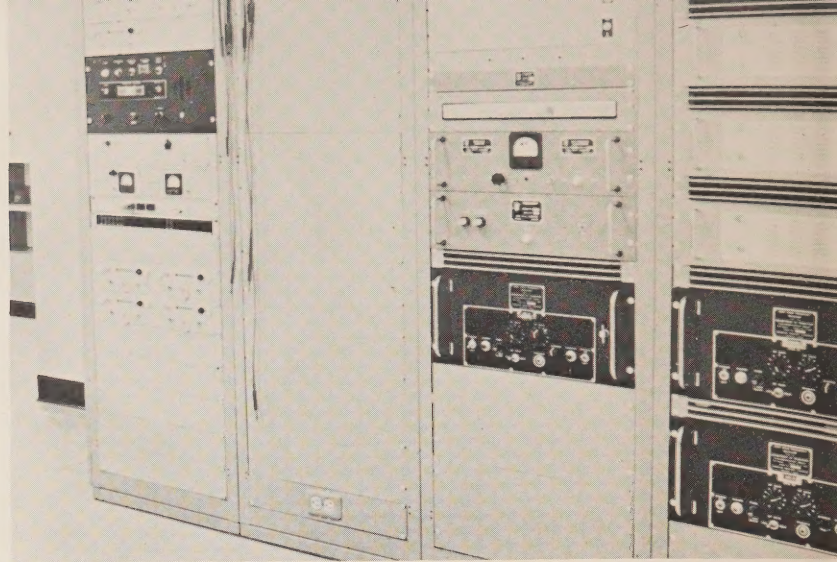


Magnifying his problems in literal sense is student-technician at Department of Transport's Air Services Training School at Ottawa International Airport.

Technical Training

The Department of Transport operates a technical training school which conducts advanced training courses for its staff. Specialized electronics courses are provided to help Electronics Technicians become familiar with new equipment and techniques, as these come into use. A few of the many electronics courses available are listed below:

- Precision Approach Radar
- Instrument Landing Systems
- Runway Visual Range Computers
- Airport and Airways Surveillance Radars
- VHF Omni-range
- Marine Radar
- Echo Sounders
- Secondary Radar (Transponder) Systems



1. A Department of Transport Surveillance Radar Installation at a Major Airport.
2. A Department of Transport Equipment Control Room.
3. Department of Transport Tape Recording Equipment.
4. On board a Department of Transport "Flying Laboratory" Aircraft.

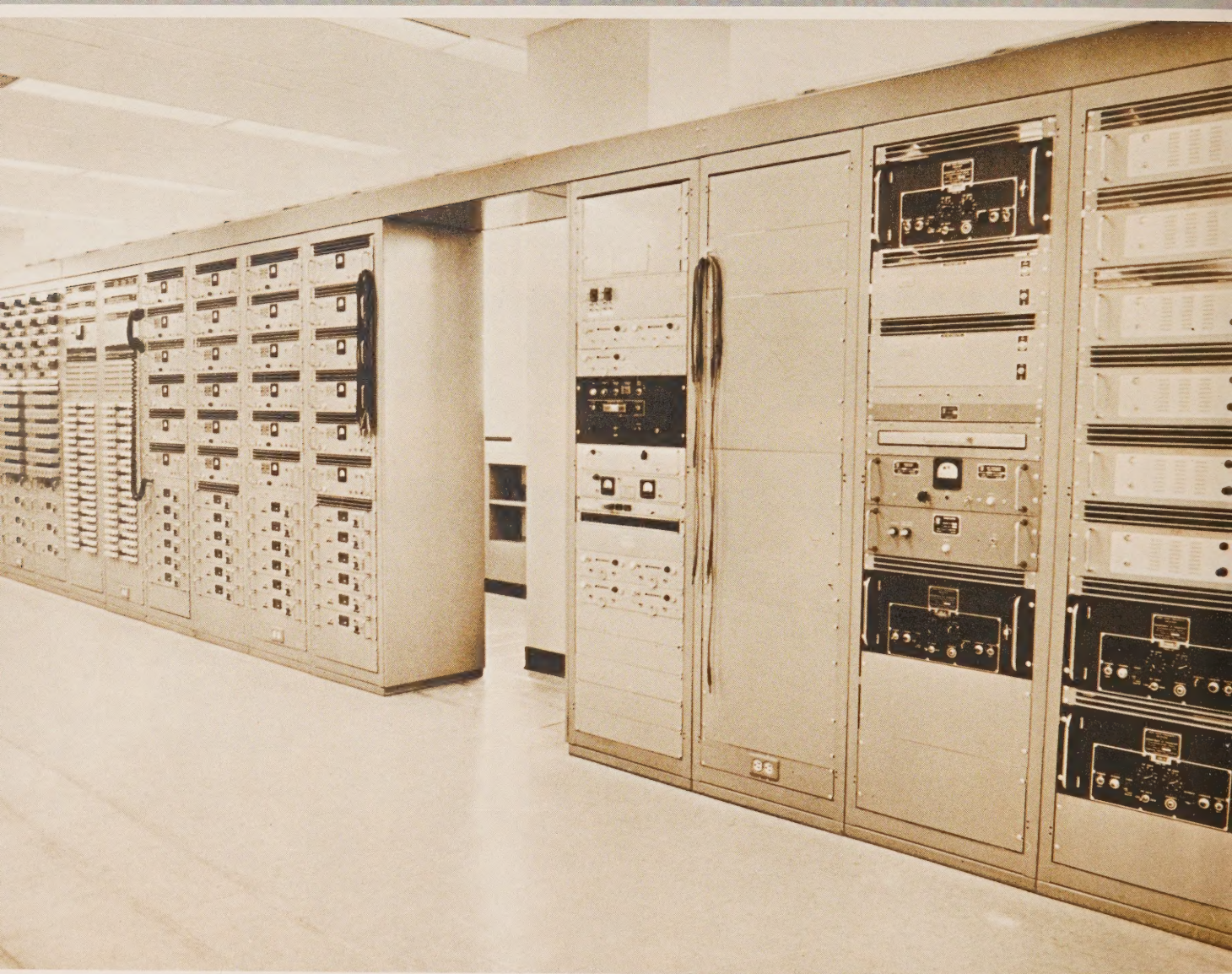
Types of Equipment Used

The Department of Transport operates the networks of modern electronic aids to navigation, forming the airways and air routes across Canada. Up-to-date, high quality test facilities, including a number of "flying-laboratory" aircraft, are available to keep these electronic aids operating at a very high standard.

The Department also operates the various electronic aids to Marine Navigation along with ship-shore communications facilities on the East and West Coasts and the Great Lakes.

Radar facilities include a network of airways surveillance radar stations from coast to coast, and a network of air traffic control transponder beacons. Precision approach radar systems are used as landing aids at many major airports. Enroute navigation aids include VHF omni-range and Tacan networks, as well as Decca and Loran navigation systems for marine use. Instrument landing systems are used as bad weather landing aids at major airports. Photographs of typical Department of Transport installations are shown in this pamphlet.

A Department of Transport Equipment Control Room
at a Major Airport.



Types of Positions Available

A new employee in the Telecommunications and Electronics Branch is assigned to a position, open at the time of his appointment, as either

- a) an Electronics Technician at a field establishment
- or b) an Electronics Technician at a Regional Office.

As vacancies occur, he may apply for positions at other stations.

Training is given to familiarize the new employee with his duties.

Electronics Technician Duties at a Field Station

A new employee at a field station will usually be assigned to maintenance of communications transmitters and receivers, and as his skills increase with experience and training, to the more complex equipments. Shift work is commonly required.

An Electronics Technician can, however, look forward to promotion to daytime duty, as a supervisor or official in charge of an establishment, as his experience and knowledge increase. While most field stations are at airports, near urban centres, there are a number in isolated and semi-isolated locations in Northern Canada and a few in the Canadian Arctic. Some field establishments are concerned primarily with the installation and maintenance of shipboard electronic equipment. A few positions involve duty aboard vessels of the Canadian Coast Guard Fleet.



Technicians at Aircraft Electronics Workshops

Aircraft Electronics Workshops are located at Ottawa, Moncton, Montreal, Toronto, Winnipeg, Edmonton, Vancouver.

All major overhauls and maintenance routines are carried out at the Ottawa workshop. Routine checks and minor repairs are completed at the other 6 locations.

Technicians at Ships Electronics Workshops

Approximately 50 electronics technicians maintain ships' electronic equipment.

Approximately 30 of these technicians are employed at the major workshops located at Victoria, Quebec, Dartmouth and St. John's.

Northern Postings

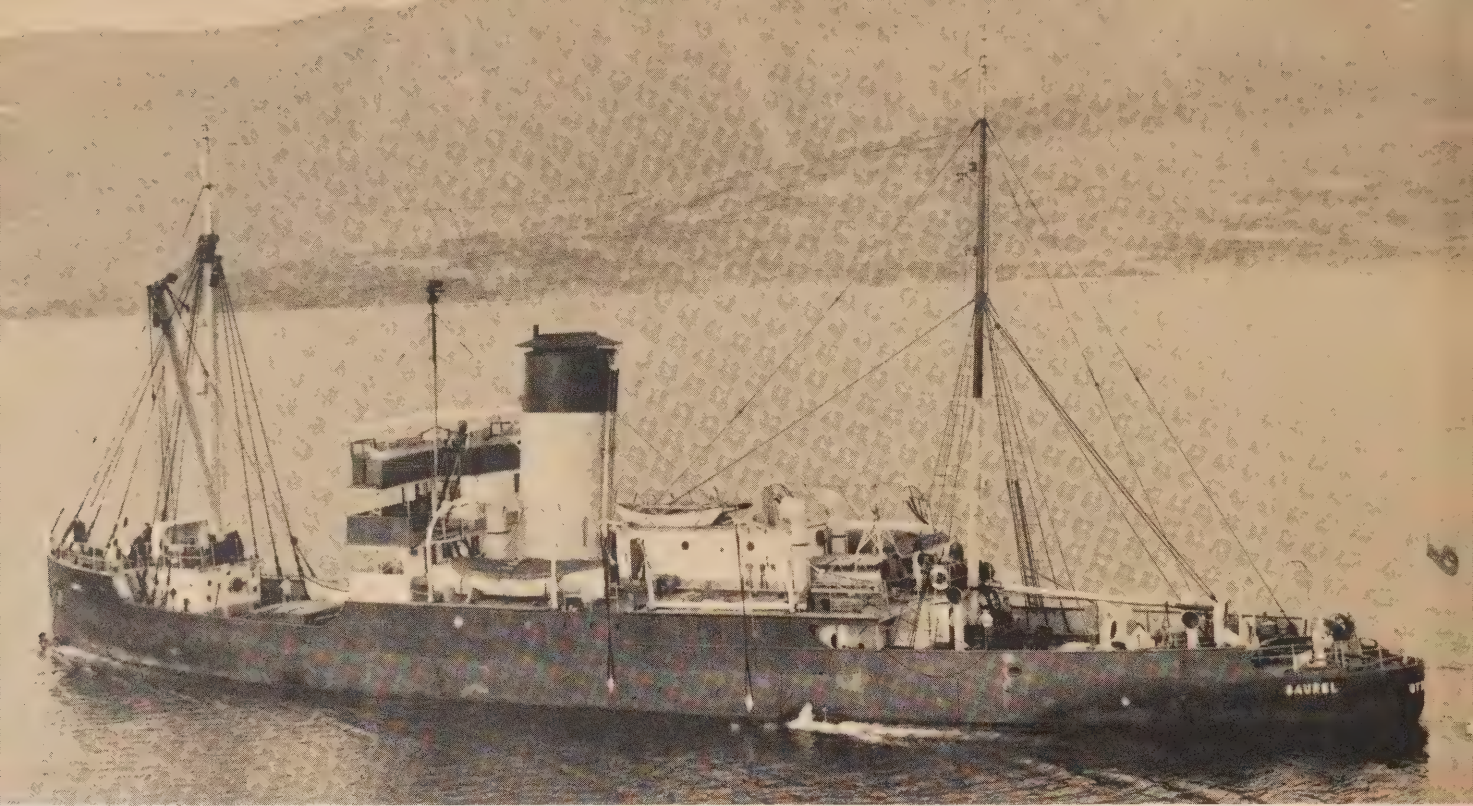
From completely isolated locations, which provide opportunity for considerable overtime along with isolation allowances —

to semi-isolated stations where family dwelling units are provided and where isolation allowances still apply.

Technicians at Airports

Electronics Technicians are employed at airports, ranging in number up to 40 at major sites.

Promotional opportunities, from working to supervisory level, are offered to Electronics Technicians.



Technicians Aboard C.C.G. Vessels

Electronics Technicians may serve aboard vessels of the C.C.G. Fleet, a number of which have technicians aboard throughout the year.

Technicians as Instructors

There are positions available, as instructors and regional training officers, for Electronics Technicians who have an aptitude for instructing and who fulfil the necessary requirements.

Electronics Technician Duties at a Regional Office

A new employee will usually be assigned to maintenance or installation duties involving many types of equipment. As his experience increases, he may participate in very complex installation or maintenance projects. Shift work is normally not required, but considerable travel is often necessary. This travel will usually be within his Regional Area only. The six Regional Offices are located at Vancouver, Edmonton, Winnipeg, Toronto, Montreal and Moncton.

The travel available for Regional Office staff is often attractive to our younger employees. As their experience increases, they can look forward to promotion to supervisory positions, having reduced travel requirements, at Regional Offices, field stations or Headquarters.



ARE YOU INTERESTED?

Who is Eligible For Employment As An Electronics Technician?

To be eligible for consideration for employment as an Electronics Technician with the Telecommunications and Electronics Branch, a candidate must have credits for seven subjects of a general or technical course at a secondary or high school level. This should include credits for Algebra, geometry, physics and chemistry together with completion of a two year (1600 hours) technical course at a Post Secondary School Educational Institute in, electronics and related devices. In addition, a candidate must be personally suitable, physically fit and willing to travel extensively in the course of his duties.

Positions of Electronics Technician are filled at the entrance level through public competitions conducted by the Public Service Commission of Canada. These competitions are advertised in major Canadian newspapers and, in addition, posters outlining the duties and qualifications are displayed in public buildings such as Post Offices and offices of the Canada Manpower Centre. Instructions for applying are outlined in the above-mentioned posters.

How to Apply for a Position with the Department of Transport

All positions with the Department of Transport are filled on a competitive basis under Public Service Commission auspices. Application forms (PSC-100) can be obtained from any Public Service Commission Office, Department of Transport Office, or placement officers at most Institutes of Technology or the National Employment Service. This application should state that a position as Technician Electronics with the Department of Transport is being applied for, and should outline the applicant's general and electronics educational attainments, as well as his experience. A high school or technical high school graduate who has completed a two or three year electronics course at a post high school institute of technology, normally meets the minimum educational requirements for employment as an Electronics Technician. Completed application forms may be forwarded at any time to the nearest Department of Transport Regional Office or Public Service Commission Office.

Regional Offices

For your convenience in filing employment applications, or obtaining additional information concerning Department of Transport employment, the addresses of our six Regional Offices are listed below:

Regional Director, Air Services,
Department of Transport,
739 West Hastings Street,
VANCOUVER 1, B.C.

Regional Director, Air Services,
Department of Transport,
Winnipeg General Post Office,
WINNIPEG 1, Man.

Regional Director, Air Services,
Department of Transport,
Regional Administration Building,
Montreal International Airport,
DORVAL, Que.

Regional Director, Air Services,
Department of Transport,
Federal Building,
9820-107th Street,
EDMONTON, Alta.

Regional Director, Air Services,
Department of Transport,
Toronto-Dominion Centre,
P.O. Box 7,
King Street West,
TORONTO 1, Ontario

Regional Director, Air Services,
Department of Transport,
P.O. Box 42,
MONCTON, N.B.

Electronics Technician Salary and Responsibility Progress Chart

<i>Electronics Technician Grade</i>	<i>Annual Salary</i>	<i>Experience Normally Required to Reach Grade</i>	<i>Typical Responsibilities</i>
1	Up to \$6090	entry level	Practical experience with communications transmitters, receivers and beacons.
2	Up to \$6675	2 years	L.F. ranges, VHF omni-ranges, or Loran.
3	Up to \$7558	4 years	VHF omni-ranges, instrument landing systems and radar.
4	Up to \$8045	5 years	Senior Technical Authority at a maintenance complex or Regional Office working level.
5	Up to \$8860	7 years	Supervisory at a maintenance complex or Regional Office.
6	Up to \$9588	9 years	Specialty Supervisor at a Regional Office.
7	Up to \$11,166	12 years	Regional Office or Headquarters Management.

NOTE: The above salaries are not static, but may be increased in accordance with the Public Service Commission's periodic salary reviews. This chart is designed as a sample illustration.

